

User Manual PLUV1 35W

Color : Green, Red and White



Writer(s) : Cédric SIRE

Historic	Date(s)	Writer(s)
Edition	07/01/2014	C.Sire

Reference : User Manual PLUV1_35W.odt

Table of contents

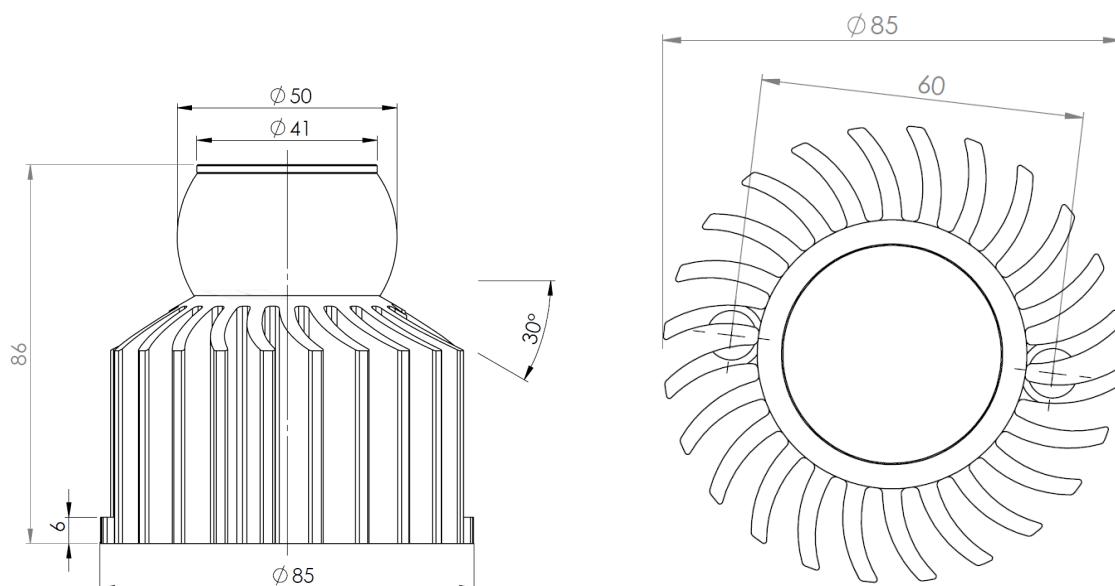
1 Description.....	2
2 Specifications.....	3
2.1 Mechanical dimensions (mm).....	3
2.2 Technical data.....	3
3 Recommandations.....	4
3.1 Cabling.....	4
3.2 Operating.....	5

1 Description

The Lighting LED source PLUV1_35W_W,G, or R is a white, green or red lighting source with a maximum power of 35 W. It has been designed to replace metal-halide bulbs up to 150 W. Indeed its emitting pattern is perfectly uniform over 360° horizontal angle within a +/- 30° azimuthal angle. This source is well adapted to maritime lanterns of more than 5 nautical miles range.

2 Specifications

2.1 Mechanical dimensions (mm)



Reference : User Manual PLUV1_35W.odt

2.2 Technical data

Parameters	Specifications
Luminous flux	1800 lumen max
Power supply	10 to 40 Volts DC ; 3.5A max ; 35W max
Dimensions	Ø 85mm, height 86 mm
Colors	Green 520nm, Red 620nm, White 4500K
Life time	> 50 000 hours
Rise time	<80ms
Vertical angular divergence	+/-35°
Point source size	4 mm
Position	On the central axis
Dimming levels	4 pre-selected in factory

Inverse polarity protection on input power connection

3 Recommandations

3.1 Cabling

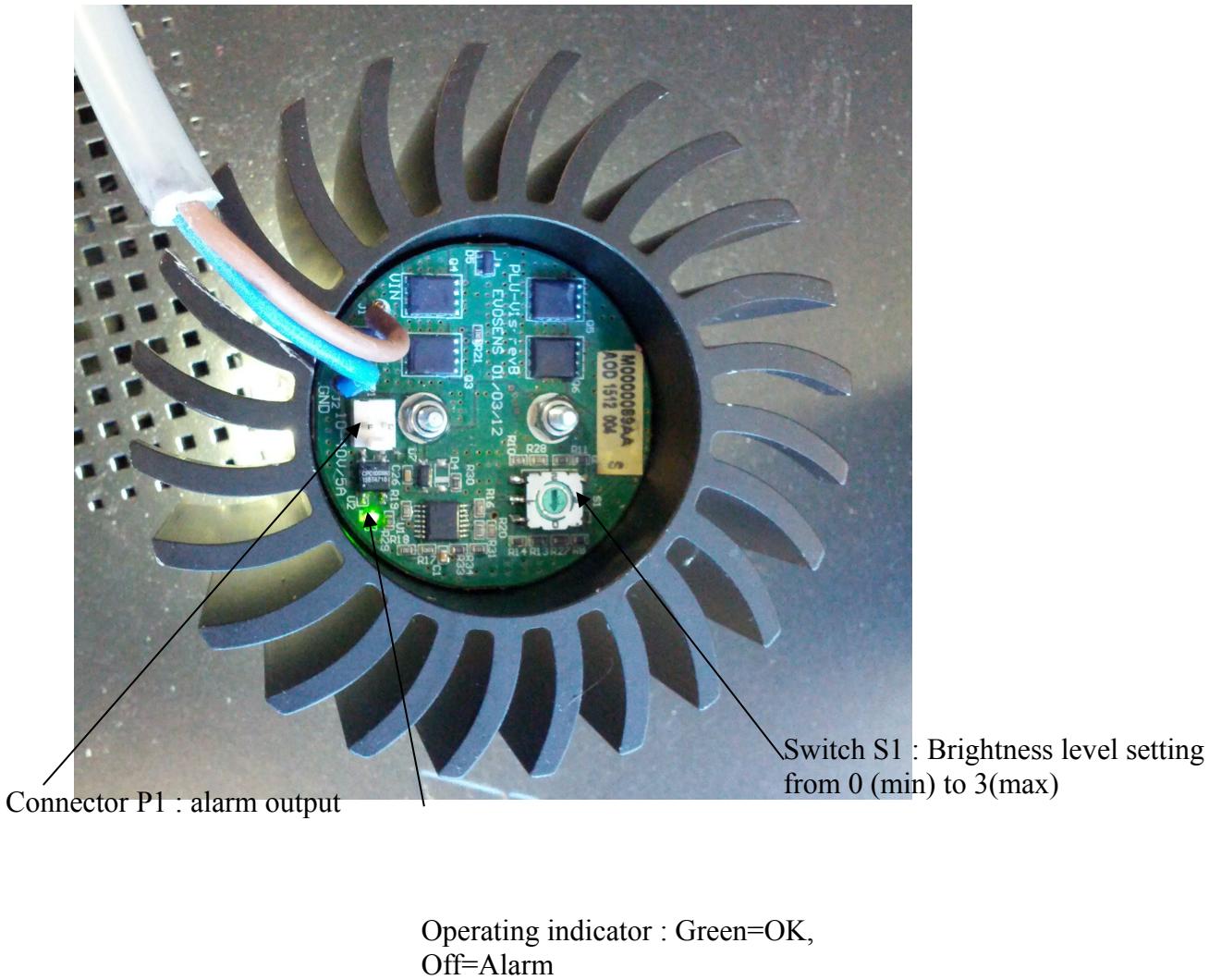
The source must be connected to DC power supply with a **voltage between 10 to 40 Volts, capable of draining 35 W.**

The power connection is done using a Faston 6.4mm. The lamp comes with a male tab terminal and a female terminal. The red one should be connected to VCC and the blue female one to the ground.

Please make sure the power supply can deliver 35 W.

It is recommended not to overpass 38 Volts for the power supply, as an over voltage limiter thermally dissipates the overloaded voltage up to 40 volts.

Reference : User Manual PLUV1_35W.odt

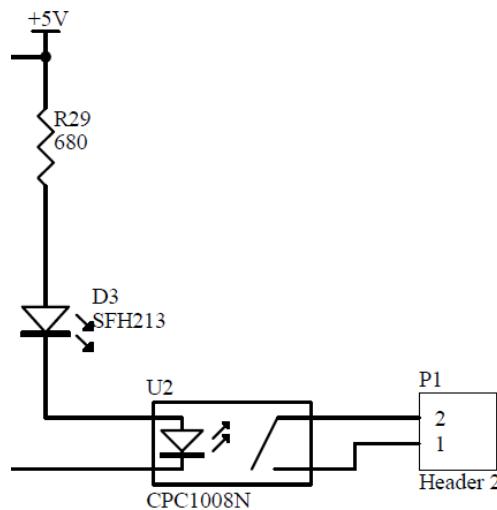


3.2 Operating

A green light is visible on the electronic driver under the lamp, which indicates proper operation. If it is off, the lamp is in a fault state. The reasons of failure could be :

1. Electronic or dissipator overheating
2. Voltage too low. (LED lifetime overpass, bad thermic dissipation)
3. LED out of use

Reference : User Manual PLUV1_35W.odt



P1 connector is an alarm for failure monitoring which can be used. It is a photo-relay, and the electrical schematic of the output is shown above.

The output power is selected by the user using the S1 switch position:

0 = Pmin (factory set according to customer's request)

1 = P1 (factory set according to customer's request)

2 = P2 (factory set according to customer's request)

3 = Pmax (factory set according to customer's request)